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NOTICE OF ALLOWANCE AND FEE(S) DUE

22434 7590 11/16/2009

Weaver Austin Villeneuve & Sampson LLP
P.O. BOX 70250
OAKLAND, CA 94612-0250

EXAMINER

TRUONG, LAN DAI T

ART UNIT

PAPER NUMBER

2452

DATE MAILED: 11/16/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/820,966

03/30/2001

Lev Brouk

ODVFP009

3909

TITLE OF INVENTION: SYSTEM AND METHOD FOR ROUTING MESSAGES BETWEEN APPLICATIONS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

22434 7590 11/16/2009

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/820,966	03/30/2001	Lev Brouk	ODVFP009	3909

TITLE OF INVENTION: SYSTEM AND METHOD FOR ROUTING MESSAGES BETWEEN APPLICATIONS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/16/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
TRUONG, LAN DAI T	2452	709-238000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/820,966	03/30/2001	Lev Brouk	ODVFP009	3909
22434	7590	11/16/2009	EXAMINER	
Weaver Austin Villeneuve & Sampson LLP P.O. BOX 70250 OAKLAND, CA 94612-0250			TRUONG, LAN DAI T	
			ART UNIT	PAPER NUMBER
			2452	
DATE MAILED: 11/16/2009				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 550 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 550 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	09/820,966	BROUK ET AL.	
	Examiner	Art Unit	
	LAN-DAI Thi TRUONG	2452	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 08/27/2009.
2. ☒ The allowed claim(s) is/are 1,3-10,17-79,84 and 85.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>06/09/09; 07/05/05; 03/21/06</u> 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input checked="" type="checkbox"/> Other <u>The amendment to the specification (filed on November, 5th, 2009, through facsimile).</u> |
|--|--|

/Kenny S Lin/
Primary Examiner, Art Unit 2452

DETAILED ACTION

1. This action is response to communications: application, filed on 03/30/2001; amendments filed on 08/27/2009. Claims 1, 3-10, 17-79 and 84-85 are pending; claims 11-16 and 80-83 are canceled; claims 1, 32-52 and 63-84 are amended.

2. The amendment to the specification (filed on November, 5th, 2009, through facsimile) is entered.

3. The amendment to the specification filed on 01/25/2005 is entered.

4. The amendment to the drawing filed on 12/07/2006 is entered.

5. Authorization for this examiner's amendments to claims 1, 32-52 and 63-84 was given in a telephone interview with Attorney Daryl C. Josephson, Reg. No. 37,365 on October 28, 2009 at 2:30 PM.

The claims have been amended as follows:

1. (currently amended) A method for routing messages from one or more sending services to one or more recipient services across a message interchange network, said message interchange network being built on an open platform overlaying a public network and providing for application integration as a service, wherein at least some of the one or more sending services and the one or more recipient services are managed by different organizational entities, and wherein each sending service and recipient service is accessible according to properties and permissions associated with each of the sending services and recipient services, comprising:

(a) receiving a message from a sending service, said message including a header element and at least one of: a body element including one or more documents that a sending service is

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sending to a recipient service, and an attachment including one or more documents that a sending service is sending to a recipient service;

(b) determining a route path for delivery of said message to said one or more recipient services, said route path including one or more in-transit services, said determining being based on an evaluation of two or more routing scripts selected from the group consisting of: a routing script defined by a sending service, a routing script defined by a recipient service, and one or more routing scripts defined by one or more in-transit services, such that each service is capable of independently affecting said determining of said route path during a logical routing of said message represented by said evaluation; and

(c) delivering said message to an in-transit service in said route path, wherein said in-transit service performs an identifiable operation on said message as said message travels from a sending service to a recipient service, the identifiable operation altering the content of the message to ensure that the message has the proper format for the recipient service.

32. (currently amended) A message routing computer system, comprising:

a message routing network built on an open platform overlaying a public network and providing for application integration as a service, said message routing network enabling routing of messages between a sending service and one or more recipient services, wherein at least some of the one or more sending services and the one or more recipient services are managed by different organizational entities, said message routing network further enabling inclusion of a plurality of in-transit services into said message routing network, wherein an in-transit service can be selectively included in a routing for a message based upon an identifiable type of processing that said in-transit service can perform on said message, a route path defining

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delivery of said message to said one or more recipient services, said route path including one or more of the in-transit services, said route path determined based on an evaluation of two or more routing scripts selected from the group consisting of: a routing script defined by a sending service, a routing script defined by a recipient service, and one or more routing scripts defined by one or more in-transit services, such that each service is capable of independently affecting said determining of said route path during a logical routing of said message represented by said evaluation. If delivering said message to an in-transit service in said route path, wherein said in-transit service performs an identifiable operation on said message as said message travels from a sending service to a recipient service, the identifiable operation altering the content of the message to ensure that the message has the proper format for the recipient service.

33. (currently amended) The message routing computer system of claim 32, wherein said in-transit service performs one of a data transformation operation, an enrichment operation, a cross-reference ID mapping operation, a filtering operation, and a credit scoring operation.

34. (currently amended) The message routing computer system of claim 32, wherein an in-transit service is included in said routing based on a routing script.

35. (currently amended) The message routing computer system of claim 34, wherein said route path is defined by the sending service.

36. (currently amended) The message routing computer system of claim 34, wherein said route path is defined by the recipient service.

37. (currently amended) The message routing computer system of claim 34, wherein said route path is defined by the in-transit service.

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38. (currently amended) The message routing computer system of claim 34, wherein said route path is defined by the sending service, the recipient service, and the in-transit service.

39. (currently amended) The message routing computer system of claim 34, wherein said routing is determined recursively.

40. (~~Original~~ currently amended) The message routing computer system of claim 34, wherein said routing is determined prior to physical delivery of said message.

41. (currently amended) The message routing computer system of claim 34, wherein said routing is determined during logical and physical delivery of said message.

42. (currently amended) The message routing computer system of claim 34, wherein a routing script defines a procedure that determines an existence of one or more attributes of the message.

43. (currently amended) The message routing computer system of claim 34, wherein a routing script defines a procedure based on pattern matching.

44. (currently amended) The message routing computer system of claim 34, wherein a routing script defines a procedure that compares one or more attributes of a message to a reference value.

45. (currently amended) The message routing computer system of claim 34, wherein a routing script is based on a routing rule, said routing rule including a condition and one or more actions.

46. (currently amended) The message routing computer system of claim 45, wherein said condition is one of an equals, not-equals, equals-one-of, less-than, greater-than, and exists operators.

47. (currently amended) The message routing computer system of claim 45, wherein said condition is a combination of one or more conditions.

48. (currently amended) The message routing computer system of claim 47, wherein said one or more conditions are combined using one or more of an AND, OR, XOR, and NOT operators.

49. (currently amended) The message routing computer system of claim 32, wherein said message routing network provides a transport level messaging service.

50. (currently amended) The message routing computer system of claim 32, wherein said message is delivered to said recipient service after said message has been routed to all in-transit services in said route path.

51. (currently amended) A computer program product, stored on ~~a machine-readable medium~~ computer-usable medium, for routing messages from one or more sending services to one or more recipient services across a message interchange network, said message interchange network being built on an open platform overlaying a public network and providing for application integration as a service, wherein at least some of the one or more sending services and the one or more recipient services are managed by different organizational entities, and wherein each sending service and recipient service is accessible according to properties and permissions associated with each of the sending services and recipient services, comprising instructions operable to cause a computer to:

receive a message from a sending service, said message including a header element and at least one of: a body element including one or more documents that a sending service is

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sending to a recipient service, and an attachment including one or more documents that a sending service is sending to a recipient service;

determine a route path for delivery of said message to said one or more recipient services, said route path including one or more in-transit services, said determining being based on an evaluation of two or more routing scripts selected from the group consisting of: a routing script defined by a sending service, a routing script defined by a recipient service, and one or more routing scripts defined by one or more in-transit services, such that each service is capable of independently affecting said determining of said route path during a logical routing of said message represented by said evaluation; and

Deliver said message to an in-transit service in said route path, wherein said in-transit service has been created to perform an identifiable operation on said message as said message travels from a sending service to a recipient service, the identifiable operation altering the content of the message to ensure that the message has the proper format for the recipient service.

52. (currently amended) A message routing network method, comprising:

(a) receiving a registration request from a service for inclusion in a message routing network, said message routing network being built on an open platform overlaying a public network and providing for application integration as a service, said service being operative to provide a data operation according to properties and permissions associated with said service;

(b) including said service in a directory of services, said directory of services enabling users of said message routing network to define at least a portion of a desired data processing on a message; and

(c) determining a route path for delivery of a message to one or more recipient services, said route path including one or more in-transit services, said determining being based on an evaluation of two or more routing scripts selected from the group consisting of: a routing script defined by a sending service, a routing script defined by a recipient service, and one or more routing scripts defined by one or more in-transit services, such that each service is capable of independently affecting said determining of said route path during a logical routing of said message represented by said evaluation. If delivering said message to an in-transit service in said route path, wherein said in-transit service performs an identifiable operation on said message as said message travels from a sending service to a recipient service, the identifiable operation altering the content of the message to ensure that the message has the proper format for the recipient service.

63. (currently amended) A computer program product, stored on ~~a machine-readable medium~~ computer-usable medium, comprising instructions operable to cause a computer to:

receive a registration request from a service for inclusion in a message routing network, said message routing network being built on an open platform overlaying a public network and providing for application integration as a service, said service being operative to provide a data operation according to properties and permissions associated with said service;

include said service in a directory of services, said directory of services enabling users of said message routing network to define at least a portion of a desired data processing on a message; and

determine a route path for delivery of a message to one or more recipient services, said route path including one or more in-transit services, said determining being based on an

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evaluation of two or more routing scripts selected from the group consisting of: a routing script defined by a sending service, a routing script defined by a recipient service, and one or more routing scripts defined by one or more in-transit services, such that each service is capable of independently affecting said determining of said route path during a logical routing of said message represented by said evaluation. If delivering said message to an in-transit service in said route path, wherein said in-transit service performs an identifiable operation on said message as said message travels from a sending service to a recipient service, the identifiable operation altering the content of the message to ensure that the message has the proper format for the recipient service.

64. (currently amended) A message routing computer system, comprising:

a message routing network having an interface that enables a plurality of services to post messages to and receive messages from said message routing network, said message routing network being built on an open platform overlaying a public network and providing for applicant integration as a service, wherein at least some of the one or more sending services and the one or more recipient services are managed by different organizational entities, and wherein each sending service and recipient service is accessible according to properties and permissions associated with each of the sending services and recipient services, at least a portion of said plurality of services providing a menu of data operations that can be selectively applied to a message traversing said message routing network, a route path defining delivery of a message to said one or more recipient services, said route path including one or more in-transit services, said route path determined based on an evaluation of two or more routing scripts selected from the group consisting of: a routing script defined by a sending service, a routing script defined by a

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recipient service, and one or more routing scripts defined by one or more in-transit services, such that each service is capable of independently affecting said determining of said route path during a logical routing of said message represented by said evaluation. If delivering said message to an in-transit service in said route path, wherein said in-transit service performs an identifiable operation on said message as said message travels from a sending service to a recipient service, the identifiable operation altering the content of the message to ensure that the message has the proper format for the recipient service.

65. (currently amended) The message routing computer system of claim 64, wherein said message routing network provides a transport level messaging service.

66. (currently amended) The message routing computer system of claim 65, wherein said message routing network is implemented on a public network.

67. (currently amended) The message routing computer system of claim 64, wherein said plurality of services include[[s]] a service that provides a data transformation service.

68. (currently amended) The message routing computer system of claim 64, wherein said plurality of services include[[s]] a service that provides a data enrichment service.

69. (currently amended) The message routing computer system of claim 64, wherein said plurality of services include[[s]] a service that provides a cross-reference service.

70. (currently amended) The message routing computer system of claim 64, wherein said plurality of services include[[s]] a service that provides a filtering service.

71. (currently amended) The message routing computer system of claim 64, wherein said plurality of services include[[s]] a service that provides a credit scoring service.

72. (currently amended) The message routing computer system of claim 64, wherein a service is selected by a sending service.

73. (currently amended) The message routing computer system of claim 64, wherein a service is selected by a recipient service.

74. (currently amended) The message routing computer system of claim 64, wherein a service is selected by an in-transit service.

75. (currently amended) The message routing computer system of claim 64, wherein said interface uses the Simple Object Access Protocol.

76. (~~Original~~ currently amended) The message routing computer system of claim 64, wherein a service is selectively applied based on a routing script.

77. (currently amended) The message routing computer system of claim 76, wherein said routing script maps an invocation of a first service to an invocation of a second service, wherein contexts of said invocations are managed by said message routing network.

78. (currently amended) The message routing computer system of claim 76, wherein said script defines a procedure for enabling determination of at least part of a routing of a message between services.

79. (currently amended) The message routing computer system of claim 76, wherein said routing script is defined by one of a sending service, a recipient service, and an in-transit service.

80. (canceled) A message routing computer system, comprising: a message routing network that enables message routing between a plurality of services, wherein each service provides a data operation that is applied to a message traversing said routing, wherein said

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message routing network generates a bill for at least part of said message routing based on usage of individual services.

81. (canceled) The message routing computer system of claim 80, wherein said bill is generated through an analysis of invocations of said plurality of services.

82. (canceled) The message routing computer system of claim 80, wherein said bill is based on message size.

83. (canceled) The message routing computer system of claim 80, wherein said bill is determined on a per transaction basis.

84. (currently amended) A method for routing messages from one or more sending services to one or more recipient services across a message interchange network, said message interchange network being built on an open platform overlaying a public network and providing for application integration as a service, the method comprising:

(a) receiving a message from a sending service, said message including a header and at least one of a body and an attachment, and wherein one or more of said body and said attachment includes one or more documents if said sending service is sending one or more documents to said sending service;

(b) determining a route path for delivery of said message to at least one of said recipient services, the determining including evaluating at least one of explicit route path instruction and one or more routing scripts, the routing scripts being at least optionally provided by one or more of services selected from a group consisting of said sending services, said recipient services, and in-transit services that may be coupled at least one of the message interchange network and one or more other in-transit services, wherein each service is capable of independently affecting said

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determining of a route path during a logical routing of said message represented by said evaluating, and wherein two or more of said services may be managed by different organizational entities; and

(c) delivering said message to one or more of said in-transit services, wherein one or more of said in-transit services conduct independent processing of said message as said message travels from a sending service to a recipient service, the independent processing being selected from a group including data transformation, content modifying, filtering and service utilization tracking[.]; wherein said in-transit service performs an identifiable operation on said message as said message travels from a sending service to a recipient service, the identifiable operation altering the content of the message to ensure that the message has the proper format for the recipient service.

Reasons for allowance

6. With respect to claims 1, 32, 51-52, 63-64 and 84, the prior arts of record, singly or in combination fails to teach the features of claim(s) limitations thereof. Specially, inter alia, it fails to teach a method for routing messages from one or more sending services to one or more recipient services across a message interchange network, said message interchange network being built on an open platform overlaying a public network and providing for application integration as a service, the method comprising steps of: receiving a message from a sending service, said message is sending to a recipient service; determining a route path for delivery of said message to said one or more recipient services, said route path including one or more in-transit services, said determining being based on an evaluation of two or more routing scripts

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selected from the group consisting of: a routing script defined by a sending service, a routing script defined by a recipient service, and one or more routing scripts defined by one or more in-transit services, such that each service is capable of independently affecting said determining of said route path during a logical routing of said message represented by said evaluation; and delivering said message to an in-transit service in said route path, wherein said in-transit service performs an identifiable operation on said message as said message travels from a sending service to a recipient service, the identifiable operation altering the content of the message to ensure that the message has the proper format for the recipient service.

Claims 3-10, 17-31, 33-50, 53-62, 65-79 and 85 further limit the allowed claims, therefore they are also allowed.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

Conclusions

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lan-Dai Thi Truong whose telephone number is 571-272-7959. The examiner can normally be reached on Monday- Friday from 8:30am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thu Nguyen whose can be reached on 571-272-6967. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ldt.
11/04/2009.

/Kenny S Lin/

Primary Examiner, Art Unit 2452